

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)								Atty. Docket No. P23694	Application No. 10/646,907				
								Applicant Hiroshi NOMURA					
								Filing Date August 25, 2003	Group 2851				
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4	9	3	7	6	0	9	06/26/90	WAKABAYASI et al.				
	4	9	7	4	9	4	9	12/04/90	TANAKA				
	5	0	9	9	2	6	3	03/24/92	MATSUMOTO et al.				
	5	2	1	0	6	4	4	05/11/93	NOMURA				
	5	3	7	6	9	8	3	12/27/94	YAMAZAKI et al.				
	5	6	3	6	0	6	2	06/03/97	OKUYAMA et al.				
	5	8	7	0	2	3	2	02/09/99	TSUJI et al.				
	5	9	1	2	7	7	2	06/15/99	AOKI				
	5	9	2	6	3	2	2	07/20/99	IWASAKI				
	6	4	9	0	0	9	9	12/03/02	SASAKI				
	6	5	7	0	7	1	8	05/27/03	NOMURA et al.				
	6	6	1	1	6	6	3	08/26/03	NAKAGAWA	X			
	6	7	1	1	3	4	9	03/23/04	DIRISIO				
2001/	0	0	1	7	7	3	8	08/30/01	NOMURA et al.				
2002/	0	1	8	1	9	5	3	12/05/02	ICHINOKAWA				
2003/	0	0	0	7	7	9	6	01/09/03	NOMURA et al.				
	6	6	6	5	1	2	9	12/16/03	NOMURA et al.				
	5	5	4	8	4	4	6	08/20/96	ENOMOTO				
FOREIGN PATENT DOCUMENTS											TRANSLATION YES NO		
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	
2003	-	1	4	9	7	2	3	05/21/03	JAPAN			X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)													
		1	An English language translation of Japanese Laid-Open Patent Publication No. 2002-277719, which was published on September 25, 2002.										
EXAMINER <i>D. Gray</i>					DATE CONSIDERED <i>03-10-2005</i>								
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.													

FORM PTO-1449		U.S. Department of Commerce Patent and Trademark Office							Atty. Docket No. P23694	Application No. 10/646,907			
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JAN 10 2005 U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4	7	9	1	4	4	1	12/13/88	NISHI et al.			
		4	4	5	1	1	2	9	05/29/84	IKARI et al.			
		3	3	7	7	4	2	7	04/09/68	FISCHER			
		5	7	1	5	4	8	2	02/03/98	WAKABAYASHI			
		4	5	9	7	6	5	7	07/01/86	WAKABAYASHI			
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
		8	-	3	1	3	7	9	0	11/29/96	JAPAN		
		6	-	2	3	0	2	6	3	08/19/94	JAPAN		
		10	-	2	5	4	0	5	4	09/25/98	JAPAN		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)													
		1	English Language Abstract of JP 8-313790.										
		2	English Language Abstract of JP6-230263.										
		3	English Language Abstract of JP 10-254054.										
		4	English Language Abstract of JP 2003-149723.										
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